EQUIPMENT LIST (CONT.)

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the reconstruction of existing Traffic Control Signals at the intersection of US 1 and Charles Armentrout Way in Prince George's County. US 1 is assumed to run a north-south direction. The signal shall be interconnected to 42nd Place / Crittenden Street to the north.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA five-phase, semi-actuated mode, with the US 1 approaches running/concurrently. An Exclusive/Permissive left turn phase shall be provided for the southbound approach of US 1. An overlapping right turn phase shall be provided for the westbound approach of Charles Armentrout Way. A pedestrian phase with pushbutton actuation shall be provided across the south leg of US 1. Farside sampling stations shall be provided on both legs of US 1 at this intersection. The 41st Place / Charles Armentrout Way approaches shall also run concurrently. Detection shall be provided via video detection.
- 2. A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

				,
۸.	EQUIPMENT	TO BE SUPPLIED BY S.H.A		
ITEM NO.	DESCI	RIPTION	QUAN	TITY
9042	Controller	ASC II with telemetry	1	EA
9044	Controller	cabinet, size "6"	1	EA
	equipment:	tion interface 5-8 cameras alled by signal shop).	1	EA
9571	Sheet alumi (mast arm)	num signs to consist of:	37	SF
	(arrow	41 St Place (arrow)/) 41 St Place" sign, faced) (variable x 16').	, 1	EA
21 4	(arrow Armen	Ch Armentrout Way) / (arrow) Ch trout WAY" sign, faced) (variable x 16").	1	EA
	R10-12 ON GRE (36" ×	"LEFT TURN YIELD EN (BALL)" sign, 42").	1	EA
	R3-5R sign,	"RIGHT TURN ONLY" (30" × 36").	1	EA

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

NO.	DESCRIPTION	QUANTITY				
2001	Class 2 Excavation.	2.5	C.Y.			
2002	Test Pit Excavation	6	C.Y.			
5002	5" yellow heat applied permanent preformed thermoplastic pavement marking.	75	L.F.			
5006	24" white heat applied permanent preformed thermoplastic pavement marking.	150	L.F.			
6001	Furnish and install depressed curb and gutter.	20	L.F.			
6004	4" concrete sidewalk.	270	S.F.			
8001	Furnish and install concrete for signal foundation.	14	C.Y.			
8002	Furnish and install 12" pedestrian signal head section	4	EA	•		
8008	Pre-manufactured camera to	3	EA			

controller (200' length) cable

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

	NO.	DESCRIPTION	QUANTITY						
	8009	Pre-manufactured camera to controller (300' length) cable	2	EA					
	8018	Furnish and install breakaway pedestal pole (10').	1	EA					
	8018	Furnish and install breakaway pedestal pole (14').	1	EA					
	8019	Remove and dispose of existing material and equipment per assignment.	1	EA					
	8027	Detectable warning system (truncated domes).	32	SF					
	8031	Furnish and install No. 6 AWG stranded bare copper ground wire.	520	L.F.					
	8034	Furnish and install 3" electrical conduit – galvanized riser.	70	L.F.					
	8035	Furnish and install 3" weatherhead.	2	EA					
	8038	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	330	L.F.					
	8039	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched.	35	L.F.					
	8040	Furnish and install 3" schedule 80 rigid polyvinyl chloride – trenched.	70	L.F.					
	8041	Furnish and install 4" schedule 80 rigid polyvinyl chloride – trenched.	90	L.F.					
	8046	Metered service pedestal.	1	EA					
	8048	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.	40	L.F.					
	8054	Furnish and install electrical handhole.	5	EA					
	8057	Install overhead sign.	37	S.F.					
	8058	Furnish and install video detector camera.	5	EA					
	8067	27' steel pole and twin 50'/70' mast arms.	2	EA					
	8071	Furnish and install 250 watt HPS Luminaire with photocell.	2	EA					
	8075	Furnish and install ground rod -3/4" x 10'.	6	EA					
	8076	Furnish and install 8" vehicular traffic signal head section.	3	EA					
	8077	Furnish and install 12" vehicular traffic signal head section	33	EA					
	8083	Furnish and install electrical cable – 2 conductor (No. 14 AWG).	290	L.F.					
	8085	Furnish and install electrical cable – 5 conductor (No. 14 AWG).	500	L.F.					
	8086	Furnish and install electrical cable – 7 conductor (No. 14 AWG).	1510	L.F.					
*	8087	Furnish and install tray cable – 2 conductor (No. 12 AWG).	390	L.F.					
	8090	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS RHODE ISLAND AVE").	3	EA					
	8091	Furnish and install 15' bracket arm for traffic signal structure.	2	EA					
	8096	Install controller and cabinet base mount.	1	EA					
	Neg.	Furnish and install electrical cable – 1 conductor (No. 250 KCMIL)	340	L.F.					
С	• EQUII	PMENT TO BE REMOVED							
the	controlle	nall remove the controller and all auxiler cabinet. The cabinet and all other retty of the contractor.	liary equ moved sig	ipment from nal materials a					
	The conta	act persons for District #3 (Prince Georg	ge's Coun	ty)					
_		Mr. Ed Rodenhizer							

are to

Mr. Majid Shakib Assistant District Engineer – Traffic Phone: (301 513–7358 Mr. Wayne Mowdy Assistant District Engineer - Maintenance Phone: (301) 513-7304

Mr. Augie Rebish Assistant District Engineer – Utility Phone: (301) 513–7350 Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787–7630

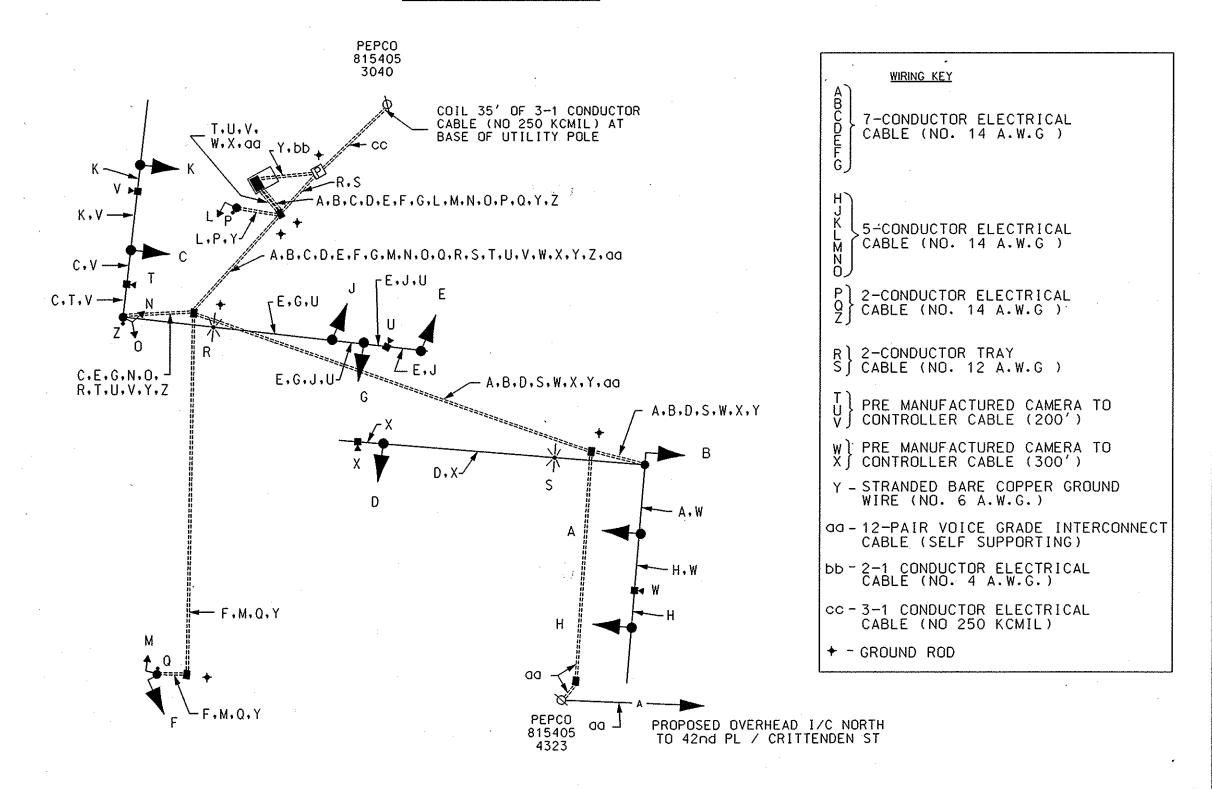
Mr. Ed Rodenhizer Signal Shop 410-787-7652 Mr. Sonny Bailey Sign Shop 410-787-7670

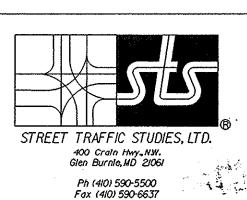
The power company representative is: Mr Richard Chilcoat PEPCO 8300 Old Marlboro Pike Upper Marlboro, MD 20772

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	(R) (Y) (G)	(R) (Y) (G)	(R) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F	(R) (Y)(Y) (G)(G)	(R) (Y) (G)	R	R (Y) (G) (G)	(R) Y) (Y) G G	(R) (Y) (G)	(R) (Y) (G)	P	P	P	P	
PHASE 2 & 5	R	R	4 -G-/G	4 -G-/G	G	R	R	R/-G- >	R	R	DW	DW	D₩	DW	7
2 & 5 CHANGE	R	R	← Y-/G	← Y-/G	G	R	R	R/ - Y- ≯	R	R	DW	- DW	D₩	DW] .
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	D₩	DW	DW	DW	7
2 & 6 CHANGE	Y	Υ	Y	Y	,* Y	R	R	R	R	R	DW	DW	DW	DW	1-
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	G.	DW	DW	DW	DW	T
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	D₩	DW	DW	DW _.	_ -;
PHASE 4 & 8 ALT	R	R	R	R	R	G	G	G	G	G	WK	WK	WK	WK	
PED CLEARANCE	R	R	R	R	. R	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW	1
4 & 8 ALT CHANGE	R	R	R	R	·R	Y	Y	Y	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	

WIRING DIAGRAM





of a second

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

US 1 AND 41ST PLACE / CHARLES ARMENTROUT WAY TS NO.

CHECKED BY: 2545D AT5665185 SHEET NO. NONE_ COUNTY: PRINCE GEORGE'S SCALE: T.I.M.S. NO. D6-3 DATE: 2/15/05 G633 16000101.23 LOG MILE:

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